

DISINFECTANTS AND DISINFECTION BYPRODUCTS AREA-WIDE OPTIMIZATION PROGRAM (AWOP)

For a water system to be recognized, the system must:

) Submit a letter of commitment outlining system goals to Drinking Water Technical Assistance (DWTA) and post system goals at the facility. 2) Submit supporting documentation to appropriate DWTA contact.

SURFACE WATER & GWUDI TREATMENT PLANT

DISTRIBUTION SYSTEM

ent ne	Minimum Sampling Frequency	Parameters	Goal	Sample Location	Assessment Timeframe
у	Meet System Specific Monitoring Requirements	TTHM Individual Site LRAA	≤ 70 ppb	All Stage 2 Compliance Locations	4 Quarters Locational Running Annual Average
unning rage	Quarterly	HAA5 Individual Site LRAA	≤ 50 ppb	All Stage 2 Compliance Locations	4 Quarters Locational Running Annual Average
unning rage	Quarterly	TTHM Long Term	≤ 60 ppb	All Stage 2 Compliance Locations	8 Quarters Average Maximum Locational Running Annual Average
MIN	Daily	HAA5 Long Term	≤ 40 ppb	All Stage 2 Compliance Locations	8 Quarters Average Maximum Locational Running Annual Average
ent ne	Minimum Sampling Frequency Daily	Free Chlorine (Free Chlorine Systems Only)	≥ 0.2 mg/L	Representative of the Distribution System	Daily
	Daily	Monochloramine (Chloramine Systems Only)	≥1.5 mg/L* Monitor Free Ammonia	Representative of the Distribution System	Monthly
linato	r_Matt Linns 60	6-594-2209 • Madis	onville & Padu	cah Regional (Office_Shape H

Florence & Morehead Regional Office & AWOP Coordinator—Matt Lipps 606-594-2209 • Madisonville & Paducah Regional Office—Shane Hardison 502-764-2593 Louisville & Frankfort Regional Office—Gabe Tanner 502-782-7088 • Bowling Green & Columbia Regional Office—CJ Bailey 270-782-8984 Hazard & London Regional Office—David Messer 606-330-2080

DWTA Supervisor—Joseph Uliasz 502-782-6291

D/DBP AWOP CERTIFICATION CRITERIA:

- Surface Water or **GWUDI** Treatment Plant
- Meet all D/DBP **Optimization Goals for** the calendar year
- No D/DBP violations f the calendar year

GOLD SEAL

RECOGNITION:

 Consecutive systems i compliance with the Stage 2 DBP Rule.

D/DBP AWOP **CHAMPION AWARD CRITERIA:**

- Meet D/DBP optimization criteria 3 consecutive years
- No SDWA violation (M/R or TT) for the year evaluation timeframe
- No exclusion of syst based on prior rece the D/DBP Champie Award

Contacts:

	Parameters	Goal	Sample Location	Assessment Timeframe	M S Fi		
	TOC Performance	≥ 1.0	Raw/CFE	Quarterly	M		
	Ratio				۲ Re		
r for	TTHM Plant Tap	≤ 30 ppb	Plant Tap	4 Quarters Running Annual Average	C		
n	HAA5 Plant Tap	≤ 20 ppb	Plant Tap	4 Quarters Running Annual Average	(
	СТ	Meet CT requirements	Multiple Zones	Daily			
D			<u> </u>				

TREATMENT PLANTS THAT UTILIZE CHLORA

a for	Parameters	Goal	Sample Location	Assessment Timeframe	Minimum Sampling Frequency
ns e 3	Free Ammonia	≤0.10 mg/L as NH₃-N	Plant Tap	Daily	Daily
atems Paipt of on	Chlorine-to- Nitrogen or Chlorine-to- Ammonia Mass Ratio	4.5:1—5.0:1 or 3.7:1—4.1:1	Plant Tap	Daily	Daily



ENERGY AND

ENVIRONMENT CABINET

Minimum

Sampling

Frequency

Quarterly

Quarterly

Quarterly

Quarterly

Daily

Monthly; (more

may be needed)

*Monitor Nitrate if

Monochloramine is

<1.50 mg/L

SPECIAL POINTS OF INTEREST:

- Optimization strives for excellence beyond regulatory requirements
- Optimization provides a safety factor for achieving compliance
- Optimization provides increased public health protection
- Optimization focuses on improving operation of existing facilities without making expensive capital improvements

DISTRIBUTION **SYSTEM GOALS**

CALCULATION:

- The Individual Site Goal is an average of the most recent 4 quarters of compliance data at each site (LRAA).
- The Long Term Goal is the average of the maximum guarterly LRAA of all sites for 8 consecutive quarters.

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